

Personnel Placement

Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, or handicap.

Positions Wanted: 40¢ per word; \$4 extra for use of box number. \$10 minimum charge, per insertion. Prepayment required. This rate is available only to individuals; personnel agencies, companies, colleges, and universities take display rate for all advertising.

Display (Positions Open, Market Place, and so forth): \$5.80 per millimeter; \$145 minimum charge, per insertion (covers 25 millimeters on single column; 25 millimeters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads under 103 millimeters (4 inches). No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information required for all other ads.

SCIENCE is published weekly, on Friday. Copy must be received in writing by Wednesday, 3½ weeks before Friday issue date required. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
Washington, D.C. 20005
Telephone: 202-467-4456

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc.
1515 Broadway
New York, N.Y. 10036
Telephone: 212-730-1050

Blind ad replies should be addressed as follows:

Box (give number)
SCIENCE
1515 Massachusetts Ave., NW
Washington, D.C. 20005

POSITIONS WANTED

Anatomy, M.S. Experienced in basic techniques of transmission electron microscopy from tissue preparation through electron microscopy. Laboratory supervisor and instructor. Extensive teaching experience in microscopic anatomy to undergraduate upperclassmen. Curriculum vitae and references upon request. Box 351, SCIENCE. X

Ecologist/Biostatistician. Ph.D. 1978. Seeks challenging teaching-research position. Ph.D. dissertation in statistical analysis of cyclic populations. Experience includes time series analysis, 10 years of teaching/consulting background in ecology and biostatistics, and environmental consulting developing countries; multilingual. Will also teach general biology. Willing to relocate. Box 343, SCIENCE. X

Environmental Geographer, M.S. Seeks experience in impact statements, land use, man-environment relationships, research. F. W. Siekkinen, 630 West Pittsburgh Street, Greensburg, Pa. 15601. X

Evolutionist/Generalist: seeking 1979 academic position. Ph.D. Harvard, 1973. Courses taught: genetics, comparative vertebrate anatomy, cytogenetics, vertebrate ecology, biogeography, invertebrate biology (marine), and general biology. Research: comparative population cytogenetics, modes of speciation and evolution, evolutionary biogeography, systematic herpetology, and evolutionary epistemology. Field experience: United States, Mexico, West Indies, Poland, Israel, Iran, and Australia. Grants, publications. Available for interviews, spring 1979. Write: W. P. Hall, University Research Fellow, Department of Genetics, University of Melbourne, Parkville, Victoria 3052, Australia.

11/17; 12/8; 1/5, 26

Ph.D. Freelance Editor/Writer, chemistry, other sciences. Extensive experience, major contributions to research literature. Box 352, SCIENCE. 11/17; 12/8

Neuroscientist. Ph.D. Research publications in neural basis of rhythmic behavior. Teaching experience in gross anatomy, general biology, and physiology of behavior. Technically skilled. Seeks position in Northwest. Box 353, SCIENCE. X

Scientific Photographer. Ten years of still photography experience at large university. Good biological background includes master's degree. Especially interested in biological and agricultural fields. Box 350, SCIENCE. 11/17; 12/1, 15

POSITIONS WANTED

Geneticist/Plant Biologist. Ph.D. Established independent investigator, sustained research program, regular publication, teaching experience. Broad basic interests: evolution, experimental hybridization, developmental genetics, differentiation. Specialized contributions: genetic regulation, radiation genetics, nuclear cytoplasmic interactions. Exceptional material, regulatory mechanisms promise: genetic, cell, organelle, molecular. Desires appropriate association, challenge, facilities, complementary staff or students: university, institute, or botanical garden. Box 342, SCIENCE. X

Microbiologist-Microbial Ecologist, Ph.D. 1977. Seeks teaching position in college biology department. Teaching experience, postdoctoral research experience, publications. Strong academic background in biology, microbiology, and biochemistry. Box 356, SCIENCE. X

Neuroanatomist. Qualified to teach medical, dental, paramedical, resident, or graduate courses. Deans and chairpersons, what are your current educational costs? Compare with \$12,000 to \$15,000 for visiting professor, audiovisual aids, outlines, for 6- to 12-week course. Box 340, SCIENCE. X

Physical Chemist, Ph.D. 1967. Tenured, full professor at a southern New England university, seeks an academic, industrial, or government position. Experience in atmospheric chemistry, solar energy, coal research, photochemistry, photoconductivity, and photoionization in liquids. Successful grantsmanship. Currently supported research projects. Publications. Will relocate. Availability open. Box 355, SCIENCE. X

Virologist/Cell Biologist, Ph.D. Seeking research, service, or administration position in carcinogenesis (viral and/or chemical); considerable experience in both. Available immediately. Box 354, SCIENCE. 11/17, 24

POSITIONS OPEN

ACADEMIC DEAN (Dean of the Colleges) for a consultative, innovative system of 11 units which offers undergraduate courses staffed by university personnel and community professionals and integrated living/learning environments responsive to student and faculty initiative. Eligibility for tenured faculty appointment essential. Send résumé and identify three or more referees to: **Dr. B. J. Howell, Chairperson, c/o Manager of Employment, Crofts Hall, Buffalo, N.Y. 14260** by 15 December 1978. Position, currently vacant, must be filled by 1 September 1979. Telephone inquiries: **Barbara Kauffman: 716-636-2316.** *State University of New York at Buffalo is an Equal Opportunity/Affirmative Action Employer.*

ANATOMIST. Position available in the Department of Basic Sciences, Peoria School of Medicine, one of the four clinical schools within the University of Illinois College of Medicine. Applicants must have a Ph.D. in anatomy and experience beyond the doctor's degree. Duties will include instructing medical and associated health sciences students, and conducting an independent research program. Must have demonstrated potential for research. Salary to be commensurate with experience and qualifications, with academic rank of assistant professor. Starting date: 1 July 1979 or 1 September 1979. Send application and names of three individuals for references before 31 December 1978 to: **Dr. F. J. Grundbacher, Department of Basic Sciences, Peoria School of Medicine, 123 S.W. Glendale Avenue, Peoria, Illinois 61605.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.*

ANIMAL CARE RESEARCH FACILITY DIRECTOR

Licensed D.V.M. with certification in laboratory animal medicine. Must have a minimum of 3 years of experience in management of a laboratory animal facility; to include working in the diagnosis, treatment, and management of animal colonies. Qualified persons contact:

Dr. Wayne Ryan
University of Nebraska Medical Center
42nd and Dewey Avenue
Omaha, Nebraska 68105
Telephone: 402-541-4445

Equal Opportunity Employer, M/F/H

POSITIONS OPEN

AFFIRMATIVE ACTION OFFICER

Position has responsibility for providing leadership in implementing Affirmative Action and Equal Employment Opportunity programs on the University of Texas Medical Branch campus.

The affirmative action officer will report to the president's office. The officer will assist deans and departmental chairpersons in implementing affirmative action policies and program objectives. Other duties include staffing a campus coordinating committee, monitoring the effectiveness of campus programs, maintaining liaison with state and federal agencies, and preparing periodic analyses and reports.

Applicants should have demonstrated leadership abilities, ability to work effectively with committees, experience in higher education (preferably in a health professional school), ability to work with people from different disciplines, an understanding of affirmative action program requirements, and at least a baccalaureate degree.

Salary depends on qualifications and experience. All applications must be received by 30 November 1978. Applications should be sent to:

Dr. John G. Bruhn
Office of the Dean of Medicine
University of Texas Medical Branch
P.O. Box 146
Galveston, Texas 77550

An Equal Opportunity/Affirmative Action Employer

ANALYTICAL PHARMACEUTICAL CHEMIST. Faculty research/teaching position available immediately. Rank dependent upon qualifications. Ph.D. with postdoctoral or comparable job experience required. Must be able to establish and operate a GC-MS laboratory, supervise technical assistants and devise chromatographic separation procedures. Submit résumé and names of three references to: **Dr. Jack Cole, Dean, College of Pharmacy, University of Arizona, Tucson, Ariz. 85721.** *An Equal Opportunity/Affirmative Action/Title XI/Section 504 Employer.*

ASSISTANT DEAN FOR ADMINISTRATION. The University of Alabama in Huntsville, School of Primary Medical Care, a 5-year-old community-based clinical branch of the University of Alabama School of Medicine.

A senior administrative officer of the school reporting directly to the dean, the assistant dean will have general responsibility for the school's administrative staff, budget preparation, and data systems development, as well as assisting the dean with a wide variety of management functions. Experience on the faculty or in administration of a medical school or university is essential. M.D., Ph.D., or master's degree in a related field required; successful candidate may qualify for a faculty appointment.

Send curriculum vitae by 15 December 1978 to:

Colin Campbell, M.D., Dean
School of Primary Medical Care
University of Alabama in Huntsville
Clinical Science Center
109 Governors Drive, SE
Huntsville, Alabama 35801
Telephone: 205-539-7757

The University of Alabama in Huntsville is an Affirmative Action/Equal Opportunity Institution.

ASSISTANT PROFESSOR OF BIOCHEMISTRY. Persons with an interest in developing a research program on some aspect of plant life relevant to crop productivity, a Ph.D. degree, and demonstrated ability to conduct biochemical or molecular biological research are invited to apply. Send curriculum vitae, statement of future research interest, and names of three references by 15 January to: **Lois K. Miller, Department of Bacteriology and Biochemistry, University of Idaho, Moscow, Idaho 83843.** *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR-BIOCHEMISTRY. A tenure-track position in eucaryotic membrane biochemistry is available starting 16 August 1979. Candidates should have postdoctoral experience and will be expected to show promise of strong research productivity and abilities in graduate and undergraduate teaching. Send résumés, including a description of planned research and three letters of recommendation, by 15 January 1979 to:

Dr. Richard H. Himes, Chairman
Department of Biochemistry
University of Kansas
Lawrence, Kansas 66045

An Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT PROFESSORSHIP

The Department of Nutrition and Food Science at Massachusetts Institute of Technology (MIT) has an opening at the assistant professor level beginning July 1979 for an individual with a background in **CHEMISTRY** or **BIOCHEMISTRY**. The position will be associated with an established faculty in food chemistry, and the individual would be expected to develop an independent teaching and research program. A doctoral degree and demonstrated ability to conduct independent research are required.

Send résumé, statement of professional interests, and names of at least three references to: **Dr. Steven R. Tannenbaum, Department of Nutrition and Food Science, MIT, Cambridge, Mass. 02139.** MIT is an Equal Opportunity/Affirmative Action Employer.

QUEEN'S UNIVERSITY DEPARTMENT OF BIOCHEMISTRY

Applications are invited for the position of **ASSISTANT PROFESSOR** in the Department of Biochemistry, Queen's University. Applicants should have a minimum of 2 years of postdoctoral experience and will be expected to develop an active research program. Teaching duties will be at the graduate and undergraduate levels. Curriculum vitae, a brief description of the proposed research, and the names of three referees should be sent to:

Dr. J. H. Spencer
Department of Biochemistry
Queen's University
Kingston, Ontario, Canada K7L 3N6

University of California, Los Angeles, Department of Earth and Space Sciences, invites applications for an **ASSISTANT PROFESSORSHIP** in marine geology-geophysics, biological, physical or chemical oceanography, and/or invertebrate paleontology to begin about 1 July 1979. The Ph.D. is required; the applicant should be an earth scientist who has demonstrated truly superior capabilities in one or more of these fields; successful candidate will be expected to walk on water. Send résumé and three letters of recommendation by 1 February 1979 to: **W. G. Ernst, Chairman, Department of Earth and Space Sciences, University of California, Los Angeles, California 90024.** An Equal Opportunity/Affirmative Action Employer.

The University of Texas Health Science Center at San Antonio, Department of Obstetrics and Gynecology, invites applications for an **ASSISTANT OR ASSOCIATE PROFESSOR** (rank to depend on experience and qualifications). Applicants must have a doctoral degree with experience in reproductive physiology or reproductive pharmacology, proven research ability, and teaching experience. Expertise and research experience in electron microscopy as applied to female reproduction is essential. Interested persons should send a letter of application, curriculum vitae, and names of three references who will not be contacted without permission, by 15 December 1978, to: **Michael J. K. Harper, Ph.D., Department of Obstetrics and Gynecology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, Texas 78284.** An Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR OF PHYSIOLOGY AND BIOPHYSICS

The Department of Physiology and Biophysics, University of Louisville Health Sciences Center, Louisville, Kentucky, has a faculty opening (Ph.D.) at the assistant or associate professor level. Teaching responsibilities will include participation in graduate courses and team taught courses for medical, dental, and nursing students.

Evidence of research ability and productivity is necessary. The field of training and of research should be primarily in the area of neurophysiology. Successful applicant is expected to conduct independent research programs and guide graduate students.

The Department of Physiology and Biophysics occupies relatively new facilities and has extremely well equipped laboratory and office space. The University of Louisville is an Affirmative Action/Equal Opportunity Employer.

Individuals interested in this position should send curriculum vitae and three letters of recommendation to: **Thomas B. Calhoun, Ph.D., Professor and Chairman, Department of Physiology and Biophysics, University of Louisville School of Medicine, Health Sciences Center, P.O. Box 35260, Louisville, Kentucky 40232.**

POSITIONS OPEN

FACULTY POSITION ASSISTANT PROFESSOR IN PHARMACOLOGY AND TOXICOLOGY

This position requires a Ph.D. in CNS pharmacology, or toxicology; postdoctoral training desirable. Candidate will be expected to participate in teaching at the professional and the graduate levels and to develop his or her research project.

Qualified applicants should send their curriculum vitae to:

Naim Khazan, Ph.D.
Department of Pharmacology and Toxicology
University of Maryland School of Pharmacy
636 West Lombard Street
Baltimore, Maryland 21201

The University of Maryland is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY. Research/teaching faculty position available immediately. Ph.D. with postdoctorate or equivalent and expertise in neurochemical techniques (receptor binding and neurotransmitter uptake, storage, release and enzyme kinetics) required. Submit résumé and names of three references to: **Dr. Jack R. Cole, Dean, College of Pharmacy, The University of Arizona, Tucson, Ariz. 85721.** An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.

SOIL SCIENCE, ASSISTANT PROFESSOR. The Department of Renewable Resources, Faculty of Agriculture, MacDonald College of McGill University, invites applications for the post of assistant professor in soil physics. Duties include teaching at the undergraduate and graduate levels and development of a creative and productive research program. A Ph.D. is required; knowledge of French an asset but not essential. Please send a résumé with the names of three references to: **Professor J. R. Bider, Chairman, Department of Renewable Resources, MacDonald College, Ste. Anne de Bellevue, Quebec, Canada H0A 1C0.**

ASSOCIATE PROFESSOR/PROFESSOR. Food Science, Nutrition and Food Systems Administration (FSNFSA); College of Home Economics (50 percent), Agricultural Experiment Station (50 percent). Teach nutrition and related chemistry courses; conduct research in nutrition or related field. Requires doctorate in nutrition or related field, direction of graduate student research, and publication. Contact: **Dr. Marjorie Penfield, FSNFSA, University of Tennessee, Knoxville, Tenn. 37916,** by 1 February 1979. Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.

BIOCHEMISTRY

The Biochemistry Department of Brandeis University invites applications for a tenure-track assistant professor position. The criterion for selection will largely rest on demonstrated and potential outstanding research accomplishments. Excellence in teaching is also expected. Send curriculum vitae, names of three references, and a short description of research accomplished, in progress, and that proposed for the next several years to: **Dr. Robert Schleif, Biochemistry Department, Brandeis University, Waltham, Mass. 02154.** Deadline for applications is 1 January 1979. Brandeis is an Equal Opportunity/Affirmative Action Employer.

ETHOLOGIST

A tenure-track position in ethology at the assistant professor level is open, contingent upon availability of funds, for a person with teaching and research interests in the areas of: (i) behavioral ecology and evolution, (ii) ontogeny of behavior, (iii) orientation, navigation, and migration, or (iv) theoretical ethology. Ph.D. required; postdoctoral experience and publications desirable. Responsibilities to include undergraduate and graduate teaching, direction of graduate students, and development of an active research program. Starting date August 1979. Deadline for application: 1 February 1979. Submit curriculum vitae, three letters of recommendation, and other supporting material to:

Dr. Sue Carter, Ethology Search Committee
Department of Ecology, Ethology, and Evolution
515 Morrill Hall
University of Illinois
Urbana, Ill. 61801
Telephone: 217-333-7801

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

The **DEPARTMENT OF BIOCHEMISTRY** of the University of Louisville Health Sciences Center invites applications from qualified individuals with a commitment to excellence in teaching and research in the areas of **eucaryote molecular biology** and **endocrine biochemistry**. Responsibilities include participation in either the medical or dental school curriculum and in the graduate teaching program. The individual is expected to develop a vigorous, independent research area while collaborating with an established program in molecular endocrinology. The full-time, 12-month appointment is at the assistant professor level, effective immediately. Ph.D. in biochemistry or related field is required. Applicants should have postdoctoral research experience. Please send curriculum vitae, list of publications, at least three letters of recommendation, and a summary of research interests to: **Dr. James L. Wittliff, Department of Biochemistry, University of Louisville School of Medicine, Health Sciences Center, P.O. Box 35260, Louisville, Kentucky 40232.** Applications will be accepted until 15 December 1978. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.

The **DEPARTMENT OF BIOCHEMISTRY** of the University of Louisville Health Sciences Center invites applications from qualified individuals with a commitment to excellence in teaching and research in the area of **eucaryotic molecular biology**. Responsibilities include participation in the dental, graduate, and medical teaching program. The individual is expected to develop a vigorous, independent research program involving the regulation of gene expression at the level of chromatin, DNA, or mRNA. The full-time, 12-month appointment is immediately available at the assistant professor level with primary appointment in the School of Dentistry. Ph.D. in biochemistry or related field is required. Postdoctoral experience is required. Please send curriculum vitae, list of publications, summary of research interests, and the names of at least three references who may be contacted for letters of recommendation to: **Dr. Jerald L. Hoffman, Chairman of the Search Committee, Department of Biochemistry, University of Louisville School of Medicine, Health Sciences Center, P.O. Box 35260, Louisville, Kentucky 40232.** Applications will be accepted until 15 December 1978. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.

The **DEPARTMENT OF BIOCHEMISTRY** of the University of Louisville Health Sciences Center invites applications from qualified individuals with a commitment to excellence in teaching and research in the areas of the **biochemistry of proteins in eucaryotic membranes, ribosomes or nuclei**. Responsibilities include participation in either the medical or dental school curriculum and in a graduate physical biochemistry course. We are particularly interested in an individual who will develop a vigorous, independent research program in the area of membrane-bound enzymes or receptors, or proteins involved in gene expression in eucaryotes. The full-time, 12-month appointment is at the assistant professor level, tenure-track, with primary appointment in the School of Medicine. Ph.D. in biochemistry or related field is required. Postdoctoral research experience is required. Please send curriculum vitae, list of publications, a summary of research interests, and the names of at least three individuals who may be contacted for letters of recommendation to: **Dr. Robert D. Gray, Department of Biochemistry, University of Louisville School of Medicine, Health Sciences Center, P.O. Box 35260, Louisville, Kentucky 40232.** Applications will be accepted until 15 December 1978. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.

CLINICAL PATHOLOGIST/ CLINICAL CHEMIST

The University of Arkansas Pathology Services Project at the National Center for Toxicological Research (NCTR) has an opening for a clinical pathologist/clinical chemist. Applicants should possess the Ph.D. degree. Knowledge of rodent hematology and clinical chemistry helpful. Duties include: (i) supervision and administration of a Clinical Pathology Laboratory; (ii) hematologic and clinical chemical evaluation of rodents involved in toxicological studies; and (iii) involvement in medical and graduate education. Salary commensurate with qualifications/experience. Send résumé to: **Director, Pathology Services Project, NCTR, HFT-230, Jefferson, Arkansas 72079.** Equal Opportunity Employer.

POSITIONS OPEN

BIOLOGIST, ASSISTANT PROFESSOR, starting September 1979. Candidates will be sought whose primary interest lies in comparative animal physiology, and who would teach courses in introductory zoology, comparative animal physiology, and invertebrate zoology. The appointee will be expected to sustain an active research program in which undergraduates will become involved. Salary competitive. Send résumé, statement of research interests, all undergraduate and graduate transcripts, publications, and three recent letters of recommendation to: **Dr. S. Richman, Chairman, Department of Biology, Lawrence University, Appleton, Wisconsin 54912**. Application must be complete by 15 February 1979 to insure consideration.

Lawrence University is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY FACULTY POSITIONS. George Mason University has three tenure-track positions for fall 1979:

- 1) **DEVELOPMENTAL BIOLOGIST** to teach a one-semester undergraduate and one-semester graduate course in developmental biology.
- 2) **IMMUNOLOGIST** to teach an undergraduate course in immunology and alternate with either a physiology or parasitology course.
- 3) **BIOLOGICAL RESOURCE ECOLOGIST** to teach a graduate course in biological resource management and assist in general ecology. Persons working in fisheries, wildlife, or forestry management are encouraged to apply.

In addition to the above, the faculty may be required to teach in one of the undergraduate core courses, for example, general biology, cell biology, or genetics, and will be expected to establish an active research program on the campus or with one of the nearby cooperating federal agencies. The applicant must have a Ph.D. degree by 1 September 1979. Complete applications containing résumé, transcripts, description of research interests, and three letters of recommendation must be received by 15 January 1979. Send to: **appropriate Search Committee Chairman, Biology Department, George Mason University, Fairfax, Virginia 22030**. *Affirmative Action/Equal Opportunity Employer.*

THE UNIVERSITY OF MICHIGAN COLLEGE OF PHARMACY

BIOPHARMACEUTICS/PHARMACOKINETICS Assistant Professor position available 1 July 1979. Candidates should possess an earned Ph.D. degree or equivalent and demonstrated expertise in pharmacokinetics. Knowledge of dosage form design and analytic methodology highly desirable. Successful candidate expected to pursue vigorous independent research and collaborative programs with clinical faculty. Responsibilities include teaching and direction of Ph.D. and Pharm.D. candidates. Send curriculum vitae, including names and addresses of three references, to: **Dr. John G. Wagner, Chairman, Pharmacokinetics Search Committee, College of Pharmacy, The University of Michigan, Ann Arbor, Michigan 48109**. *A nondiscriminatory, Affirmative Action Employer.*

UNIVERSITY OF SOUTH FLORIDA CHAIRMAN OF THE MARINE SCIENCE DEPARTMENT

The Department of Marine Science of the University of South Florida (USF) located at St. Petersburg announces the availability of the position of chairman of the department. Marine Science at USF has been designated by the Board of Regents of the State University System for special funding by the state legislature for its development as a graduate Center of Excellence.

The department now consists of ten faculty members. Six additional faculty members are being recruited. The department's primary mission is research and graduate training.

The chairman should be a Ph.D. with excellent research credentials and considerable administrative experience. A background of work in a marine station or oceanographic institute is highly desirable. The rank is professor. Salary will depend on experience and professional accomplishment but the 12-month minimum is \$35,000. The appointment can be made at any time during the academic year. The closing date for the receipt of applications is 1 January 1979.

Applicants should send complete résumés to: **Dr. T. L. Hopkins, Chairman of Search Committee, Department of Marine Science, University of South Florida, St. Petersburg, Florida 33701**. *The University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR, CLINICAL PHARMACOLOGY (INTERNAL MEDICINE AND PHARMACOLOGY)

\$36,000 to \$39,000 per annum

Excellent opportunity for candidate with M.D.-Ph.D. degree or equivalent research experience in chemistry, pharmacology, toxicology, or related areas to join Division of Clinical Pharmacology jointly established by Departments of Medicine and Pharmacology. The mission of the Division of Clinical Pharmacology is to conduct research and develop educational programs. The innovative Health Sciences Center at Stony Brook is located on the picturesque north shore of Long Island, 50 miles from New York City. Contact the director of the Division of Clinical Pharmacology,

Ilene H. Raisfeld, M.D.
Department of Pharmacological Sciences
Health Sciences Center
State University of New York at Stony Brook
Stony Brook, New York 11794
Telephone: 516-246-2236/37

State University of New York is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY FACULTY POSITION

Indiana University School of Medicine, Department of Biochemistry, invites applications for the position of assistant or associate professor of biochemistry, effective July 1979. Those whose research interests focus on the biochemistry of metabolic and endocrine systems are especially encouraged to apply. Applicants are expected to have postdoctoral training and/or publications demonstrating productivity and originality in research. Preference will be given to applicants who have the background, motivation, and ability to be excellent teachers of professional and graduate students and to develop vigorous productive research programs. Please send curriculum vitae, bibliography, a short statement of future research goals, and the names of three references by 15 January 1979 to: **Dr. R. A. Harris, Chairman, Search Committee, Department of Biochemistry, Indiana University School of Medicine, Indianapolis, Indiana 46223**. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

CELL BIOLOGIST

The Division of Biology has a tenure-earning position available at the assistant professor level effective 1 September 1979. Applications are invited from outstanding candidates in all areas of eukaryotic cell biology but especially those with an active research interest involving molecular and cellular approaches to development, physiology, genetics, motility, and regulation. The successful applicant will be expected to establish a vigorous and creative research program and to participate in graduate and undergraduate teaching. Candidates should apply by 31 December 1978 and submit curriculum vitae, three letters of reference, and a brief description of future research plans to:

Dr. Terry C. Johnson, Director
Division of Biology
Kansas State University
Manhattan, Kansas 66506

Kansas State University is an Equal Opportunity/Affirmative Action Employer.

ECOLOGIST

Kansas State University's Division of Biology has an associate professor or professor position available for an individual who will take advantage of ecological research opportunities on our recently acquired 3487 hectare Konza Prairie Research Natural Area. Ecological research is broadly defined; included are such ecological processes as interactions, biogeochemical cycling, and soil biota in the prairie ecosystem. A qualified candidate is expected to be an established and productive research scientist, with a commitment to undergraduate and graduate education, and a record of leadership. Date of employment is negotiable, but is targeted for 1 September 1979. Applicants should submit curriculum vitae, three letters of reference, and a brief description of professional goals by 31 December 1978 to:

Dr. Terry C. Johnson, Director
Division of Biology
Kansas State University
Manhattan, Kansas 66506

Kansas State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

BOTANIST-PLANT PHYSIOLOGIST. A tenure-track position is available at the rank of assistant professor to commence 25 August 1979. Duties include teaching an introductory botany course and a course for upperclassmen and graduate students in some aspect of plant physiology. Maintaining an active program of research and aiding in the training of graduate students is expected. Some preference will be given to a person with special interest in photosynthesis or ecological physiology. Good laboratory facilities are available. Apply with curriculum vitae, transcripts, reprints, and a list of references to be sent to: **Chairman, Department of Botany, University of Iowa, Iowa City, Iowa 52242**, by 15 January 1979. *Affirmative Action/Equal Opportunity Employer.*

COORDINATOR OF LABORATORIES

Immediate opening for an M.S. or Ph.D. to be in charge of teaching laboratory in medical physiology. Must be familiar with laboratory procedures and equipment and willing to collaborate in some area of physiology research. Salary commensurate with qualifications/experience. Send curriculum vitae and three letters of reference to:

Dr. Charles D. Barnes, Chairman
Department of Physiology
Texas Tech University School of Medicine
Lubbock, Texas 79430

DEAN AND PROFESSOR OF NURSING

The Medical College of Ohio is seeking a nurse educator to serve as the dean and professor of nursing in an innovative health consortium. The N.L.N. accredited Baccalaureate Nursing Program accepts 100 students after their first year in consortium affiliated programs at Bowling Green State University and the University of Toledo. Located on a new campus in Toledo, with a full-time faculty of 30 members, the School of Nursing has recently added a B.S. degree for R.N.'s, a P.N.P. program, and is planning a graduate program. Candidates for dean must have a doctorate and have baccalaureate educational experience in clinical nursing, teaching, and administration. A graduate educational experience and research experience are preferred. Closing date for applications is 30 November 1978, with a desired appointment date in January 1979, and a starting date of 1 July 1979. Send curriculum vitae and three names of references to: **Joel P. Zrull, M.D., Chairman, Search Committee for Dean and Professor of Nursing, Medical College of Ohio, C.S. #10008, Toledo, Ohio 43699**.

The Medical College is an Equal Opportunity/Affirmative Action Employer.

ENDOCRINE PHYSIOLOGIST

A tenure-track ASSISTANT PROFESSOR position is available 1 January 1979 for an individual interested in teaching and research. Applicants must have postdoctoral experience and demonstrated research ability. An individual with interest in endocrine regulation of metabolism or mechanism of hormone actions is preferred. Send résumé, curriculum vitae, and names of three references to: **Dr. F. N. Briggs, Department of Physiology, Medical College of Virginia, Box 608, MCV Station, Richmond, Virginia 23298**. *An Equal Opportunity/Affirmative Action Employer*

POSITIONS OPEN

The Food Safety and Quality Service (FSQS) of the U.S. Department of Agriculture (USDA) has a **CHEMIST** position, grade GS-12, salary \$23,087 to \$30,017 per annum, located on the Chemistry Staff, in Beltsville, Maryland. The incumbent assists the supervisory chemists and project leaders in establishing protocols for implementing the policies and responsibilities of the Methods Development Unit, Chemistry Division Laboratory; and develops and refines relevant analytical methods for drug residues and organic contaminants involving various concepts and techniques, such as mass spectrometric, the various chromatographic approaches (gas, liquid, thin layer, higher pressure liquid, and so forth), and spectrophotometric.

Qualifications: candidates must have a bachelor's or higher degree in one of the physical or life sciences, or engineering, or a combination of education and experience that has provided technical and professional knowledge equivalent to that provided by the full 4-year college course; and a minimum of 3 years of professional experience in chemistry, of which 1 year must have been at the next lower grade level or equivalent. *USDA is an Equal Opportunity Employer.* Submit Standard Form 171, Personal Qualifications Statement, by 8 December 1978, to: Christine Robinson, USDA, FSQS, Personnel Division, G2, WSP0, Room 3438-South Building, 14th Street and Independence Avenue, SW, Washington, D.C. 20250; telephone: 202-447-6617.

The Food Safety and Quality Service (FSQS) of the U.S. Department of Agriculture (USDA) has a **CHEMIST** position (senior staff officer), grade GS-14, salary \$32,422 to \$42,171 per annum, located with the Chemistry Staff Laboratory in Washington, D.C. The incumbent serves as senior staff officer and as such participates with the chief staff officer and other senior staff officers in formulating and recommending broad policies and program objectives of the staff, is a staff expert and provides the highest level of expertise and direction in methods development, quality assurance, and special assignments.

Qualifications: candidates must have a bachelor's degree or higher in one of the physical or life sciences, or engineering or a combination of education and experience that has provided technical and professional knowledge equivalent to that provided by the full 4-year college course; and a minimum of 3 years of professional experience in chemistry, of which 1 year must have been at the GS-13 level or equivalent. *USDA is an Equal Opportunity Employer.* Submit Standard Form 171, Personal Qualifications Statement, by 8 December 1978, to: Christine Robinson, USDA, FSQS, Personnel Division, M2, WSP0, Room 3438-South Building, 14th Street and Independence Avenue, SW, Washington, D.C. 20250; telephone: 202-447-6617.

ELECTRON MICROSCOPE SUPERVISOR. New position requires advance degree or 5 years of experience using TEM and SEM, and performing laboratory level maintenance including mechanical and electronic alignment and aperture cleaning. Salary negotiable with excellent benefits: working in a research and teaching atmosphere. Application deadline: 1 December; starting date: 1 January. Send résumé to or contact: Eastern Virginia Medical School, Personnel Office, P.O. Box 1980, Norfolk, Virginia 23507; telephone: 804-446-5241. *Affirmative Action Employer.*

FACULTY POSITION-MICROBIOLOGIST

Applicants must have the Ph.D. degree and a strong commitment to research. Postdoctoral experience preferred. The position calls for an important role in teaching general microbiology as well as developing an independent research program. Preference will be given to applicants with expertise in (i) microbial ecology, (ii) microbial physiology, (iii) medical microbiology, but applicants with accomplishments in other areas are also encouraged to reply. Send curriculum vitae and three letters of recommendation to: Dr. M. Ogur, Chairman, Department of Microbiology, Southern Illinois University, Carbondale, Ill. 62901. The deadline for submission of applications is 15 January 1978.

An Equal Opportunity/Affirmative Action Employer

University of Alberta, Edmonton, Canada. **FACULTY POSITION** vacant in Department of Medical Bacteriology. Rank and salary negotiable. Medical degree and interests in antibiotics or mechanisms of pathogenicity desirable. Applications with curriculum vitae to: Professor F. L. Jackson, Chairman, Department of Medical Bacteriology, University of Alberta, Edmonton, Alberta, Canada T6G 2H7.

POSITIONS OPEN

The Food Safety and Quality Service (FSQS) of the U.S. Department of Agriculture (USDA) has **TWO CHEMIST POSITIONS**, grade GS-11/12, salary \$19,263 to \$30,017 per annum, located on the Chemistry Staff, Washington, D.C. In position No. 1, the incumbent serves as a specialist in the gas liquid chromatographic-mass spectrometric confirmation of compounds in the microgram and submicrogram range in the Chemistry Division Laboratory of the FSQS. In position No. 2, the incumbent assists the supervisory chemists and project leaders in establishing protocol for implementing the policies and responsibilities of the Methods Development Unit.

Qualifications: candidates must have a bachelor's or higher degree in one of the physical or life sciences, or engineering, or a combination of education and experience that has provided technical and professional knowledge equivalent to that provided by the full 4-year college course; and a minimum of 3 years of professional experience in chemistry, of which 1 year must have been at the next lower grade level or equivalent. *USDA is an Equal Opportunity Employer.* Submit Standard Form 171, Personal Qualifications Statement, by 8 December 1978, to: Christine Robinson, USDA, FSQS, Personnel Division, C2, WSP0, Room 3438-South Building, 14th Street and Independence Avenue, SW, Washington, D.C. 20250; telephone: 202-447-6617.

Please indicate on application which position(s) you are applying for.

DIRECTOR ARIZONA-SONORA DESERT MUSEUM

Applications and nominations are invited for this position. The institution is a "living museum" interpreting the Sonoran Desert Region, a unique combination of botanical garden, zoological park, and earth sciences center, with a strong commitment to education, conservation, research, public service, and cooperative programs with Mexico. The museum is a private, non-profit corporation supported by admissions and donations with a staff of nearly 100.

Candidates must have demonstrated exceptional abilities for leadership, public relations, administration and fiscal management, and particularly the ability to work and communicate effectively at all levels, both inside and outside the organization. Major qualifications include: broad knowledge of the natural sciences, preferably including familiarity with deserts and desert ecology, and practical experience in conservation, in education, and in interpretation. Advanced degree desirable. Salary commensurate with experience and qualifications. Applicants should submit a résumé, appropriate statement of interests and names of five references to: Arizona-Sonora Desert Museum Search Committee, P.O. Box 41447, University Speedway Station, Tucson, Arizona 85733. *An Equal Opportunity/Affirmative Action Employer.*

ENVIRONMENTAL DEFENSE FUND

National environmental organization seeks **EXECUTIVE DIRECTOR** to live in New York City or Washington, D.C., area. Responsibilities include coordination of scientific and legal programs and personnel, as well as fundraising. Salary negotiable. Management and fundraising experience essential; familiarity with environmental matters preferred. Send résumé and references to: Environmental Defense Fund, 1525 18th Street, NW, Washington, D.C. 20036.

FACULTY APPOINTMENTS. The Rutgers University, Camden College of Arts and Sciences, Biology Department, has two anticipated tenure-track assistant professor openings for fall 1979.

- 1) **PHYSIOLOGIST**, Ph.D., to teach courses in anatomy and physiology and pathophysiology, as well as a graduate course in physiology.
- 2) **GENETICIST**, Ph.D., to teach a course in genetics, as well as presenting a graduate course in cytogenetics and/or cell ultrastructure and function.

In addition to the above, each person will be expected to contribute to instruction in an introductory course in biology, develop a productive research program, handle committee assignments, and direct and advise students. Applications, including curriculum vitae, reprints, and three letters of reference, should be sent to: Dr. Ralph E. Good, Chairman, Biology Department, Rutgers University, Camden, N.J. 08102 by 31 December 1978. *Rutgers, The State University of New Jersey, is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

EM TECHNICIAN

Candidate should have a B.S. or M.S. degree, experience with all aspects of the TEM and a background in hematology. Experience with a STEM and SEM, as well as with tissue culture systems and virology would be desirable, although not required. Send curriculum vitae to: **Head, Research Laboratory, Department of Medical Oncology and Hematology, Hahnemann Medical College and Hospital, 230 North Broad Street, Philadelphia, Pa. 19102.**

FACULTY POSITION, CERAMIC ENGINEERING UNIVERSITY OF FLORIDA

The Department of Materials Science and Engineering is inviting applications for a tenure-track position at the assistant or associate professor level. Candidates should be interested in teaching undergraduate and graduate courses and in developing research programs. A Ph.D. in ceramics or related discipline is required. Curriculum vitae, list of publications, three letters of recommendation, and a statement of research interests should be submitted by 1 December 1978 to:

Professor E. Dow Whitney
Department of Materials Science and Engineering
University of Florida
Gainesville, Florida 32611
Telephone: 904-392-1451

The University of Florida is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN ANATOMY

NEUROANATOMIST sought for position in the Department of Human Anatomy; appointment at the assistant professor or beginning associate level with primary teaching commitment in the area of neurobiology. Demonstrated commitment and excellence in research and teaching are essential and one or more years of experience after the doctoral is preferred. Send complete curriculum vitae, including a statement of research interest and names of at least three references, to: **Dr. Allen C. Enders, Chairman, Department of Human Anatomy, School of Medicine, University of California, Davis, Davis, California 95616.** Closing date for applications is 15 December 1978. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

The University of Tennessee Space Institute

FACULTY POSITIONS for graduate teaching and research are available at the University of Tennessee Space Institute in the following disciplines and areas of concentration:

AEROSPACE ENGINEERING: (i) flutter, stability control, aeroelasticity; and (ii) aircraft design.
COMPUTER SCIENCE: software-simulation-modeling.

ELECTRICAL ENGINEERING: controls and/or electronics and instrumentation; electro-optics; avionics.

MATHEMATICS: applied-numerical analysis; functional analysis, differential equations.

PHYSICS or ENGINEERING: (i) integrated optics; (ii) remote sensing; (iii) cloud physics; and (iv) atmospheric optics.

All positions require demonstrated research accomplishment or strong research interest and potential. Ph.D. required for all except aircraft design, where M.S. plus experience considered. Address responses to: **Dr. Charles Weaver, Dean, University of Tennessee Space Institute, Tullahoma, Tenn. 37388.** Applications sought for **POSTDOCTORAL RESEARCH POSITIONS** in energy conversion, atmospheric sciences, gas dynamics, gas diagnostics, remote sensing, and materials.

An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer

FACULTY POSITION available in Department of Anatomy for **developmental biologist** studying biochemical aspects of development of nervous system at a cellular, subcellular, or molecular level. Must have postdoctoral experience and ability to develop an independent, productive research program. Responsibilities include teaching anatomical disciplines in an integrated curriculum for medical, dental, and graduate students. Rank and salary depend on qualifications. Apply to: **Dr. J. A. Grasso, Developmental Biology Search Committee, Department of Anatomy, University of Connecticut Health Center, Farmington, Conn. 06032.** *An Equal Opportunity Employer, M/F.*

**FACULTY POSITIONS
TUFTS UNIVERSITY BIOLOGY DEPARTMENT**
Available starting 1 September 1979

ANIMAL PHYSIOLOGIST, broadly trained. Level of appointment commensurate with experience. Preference will be given to candidates who have demonstrated excellence in teaching and proven ability to obtain research funding. Teaching duties will include sharing the instruction in a year-long course in general physiology, teaching an advanced course in the area of research specialty, and contributing to the instruction of students at the Tufts professional schools.

Application deadline: 15 December 1978.

Search committee chairman: Dr. John W. Kimball.

DEVELOPMENTAL BIOLOGIST working with animal systems. Assistant professorship. The appointee will be expected to conduct a vigorous research program including the direction of doctoral students. Preference will be given to applicants with post-doctoral experience. Teaching duties will include an intermediate-level course in developmental biology, an advanced course in area of specialty, and some contribution to the teaching of students at the Tufts professional schools.

Application deadline: 15 December 1978.

Search committee chairman: Dr. Eli C. Siegel.

INVERTEBRATE ZOOLOGIST-MARINE BIOLOGIST. Assistant professorship. Duties include teaching invertebrate zoology with laboratory, participation in general biology course laboratory, and offering an advanced course in specialty. Active research program is essential. Appointee will be involved in development of marine programs at the university.

Application deadline: 10 January 1979.

Search committee chairman: Dr. Edward S. Hodgson.

Please send curriculum vitae, brief statement of research plans, and representative reprints, and arrange to have three letters of recommendation sent to the chairman of the appropriate search committee.

Biology Department
Tufts University
Medford, Mass. 02155

Tufts University is an Equal Opportunity/Affirmative Action Employer. Applications from women, minorities, and the handicapped are encouraged.

SOLAR ENERGY

Colorado

Photovoltaics Research

The Solar Energy Research Institute's Photovoltaics Program Office has present openings for Scientists/Engineers at the Senior and Staff level to manage research efforts under the Department of Energy's Photovoltaic Research Program.

Areas of Photovoltaic Research will include:

- 111-V Thin Film and Concentrator Cells
- Amorphous Materials
- Polycrystalline Silicon Cells
- 11-VI Thin Film Cells
- Electromechanical Photovoltaic Cells

SENIOR LEVEL

Applicants must have as a minimum an M.B.A. or M.S. in Physics, Chemistry or Electrical Engineering, (a Ph.D. would be desirable), with at least 5 years experience in Photovoltaic/Semiconductor device or materials research/research management.

STAFF LEVEL

Applicants should meet the above listed educational requirements and have at least 3 years experience or a B.S. in one of the above listed fields with 5-10 years experience.

Qualified applicants are invited to submit detailed resume, (no phone calls), including professional references and salary history. SERI will only consider those applicants providing the above requested materials.

SERI

Mr. J.B. King
Personnel Services

**SOLAR ENERGY
RESEARCH INSTITUTE**

A Division of Midwest
Research Institute
1536 Cole Boulevard
Golden, Colorado 80401

A DOE Contractor

We Are An Equal Opportunity Employer M F H V

ENVIRONMENTAL SCIENTIST

San Francisco Peninsula

We are seeking an individual whose primary responsibilities will entail developing research programs and managing research contracts to achieve comprehensive assessment of alternative energy related technologies, establishing cost-benefit relationships, assessing impacts of regulations on technologies. Will act in liaison capacity with industry and government.

Candidates must have a PhD or equivalent in environmental economics, engineering, operations research, or an environmental discipline. A strong interest in environmental policy and impact assessment is required. Prefer two years experience managing or performing research in an environmental discipline.

EPRI is a private non-profit R&D organization dedicated to developing technologies in environmentally acceptable ways. Please submit resume with salary history and requirements to Ms. Rosemary Dinelli.

EPRI

ELECTRIC POWER RESEARCH INSTITUTE

P.O. BOX 10412
3412 HILLVIEW AVENUE
PALO ALTO, CA. 94304

We are committed to equal
employment opportunities m/f/h.

STAFF TOXICOLOGISTS

We currently have two openings for Staff Toxicologists in Monsanto's Environmental Policy Staff. This unit is based at our World Headquarters in St. Louis and serves the entire corporation. Responsibilities will include determining the need for short- and long-term toxicity tests, arranging for their completion and evaluating results.

The successful candidate should have a PhD in Toxicology, Biochemistry, or Pharmacology, and up to five years of professional experience. Please forward resume materials to: Dr. Philip R. Schenkenberg, Dept. C1-551, Monsanto Company, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166.

Monsanto

An Equal Opportunity Employer M/F

Bio-Chemist

We are seeking a postdoctoral PhD with broad experience in instrumentation and fluorescence-spectrophotometry to research and study T-lymphocytes and protein antigens. The successful candidate will have an opportunity to work in a newly developed cancer detection laboratory in a health care setting under the direction of a physicians group.

Salary is commensurate with experience. Please submit resume and curriculum vitae with salary history and requirements to:

Employee Relations

Augustiana

Hospital and Health
Care Center

411 W. Dickens St.
Chicago, Illinois 60614

An Equal Opportunity
Employer M/F/H

POSITIONS OPEN

FACULTY POSITION. Assistant professor, Department of Biochemistry and Pharmacology, Tufts University School of Medicine, Boston, Mass. 02111, with postdoctoral experience relevant to mechanisms of enzyme action. Responsibilities include pursuit of fundamental research and participation in the teaching of medical and graduate students. Contact: Dr. Henry G. Mautner, Chairman, Tufts University is an Equal Opportunity/Affirmative Action Employer.

University of South Florida (USF) EIGHT NEW FACULTY FOR THE DEPARTMENT OF MARINE SCIENCE

The Department of Marine Science at the University of South Florida, St. Petersburg, announces the establishment of up to eight new faculty positions. Marine Science at USF has been designated by the Board of Regents for the State University System for special funding by the state legislature for its development of a graduate Center of Excellence. The Florida Institute for Oceanography, also located in St. Petersburg, provides research vessel use and equipment for oceanographers in the State University System.

Applications from persons in the following oceanographic specialties are encouraged:

Phytoplanktonology, marine animal physiology, fishery biology, microbiology, organic geochemistry, physical chemistry, radiochemistry, geotechnical properties of sediments, carbonate petrology/sedimentation, and high resolution geophysics.

Rank and salary will depend upon professional experience and accomplishment. The minimum for a 9-month appointment for professor is \$24,000; associate professor, \$17,000; and assistant professor, \$15,000. The positions are fully state-supported and tenure-earning. Duties will involve approximately 75 percent research and 25 percent teaching.

The new appointments may be made at any time prior to the 1979-1980 academic year. Applicants must have the Ph.D. in fields appropriate to their specialties and promising records of research accomplishment. The closing date for the receipt of applications is 1 January 1979.

Applicants should send complete résumés with three references to: Dr. John C. Briggs, Department of Marine Science, University of South Florida, 830 First Street South, St. Petersburg, Florida 33701. The University is an Affirmative Action/Equal Opportunity Institution.

FACULTY POSITION

The Chemistry Department anticipates having a tenure-track position in biochemistry. We are looking for a biochemist with an interest in structure-function relationships with emphasis on the application of sophisticated physical tools to biological molecules or systems. This position will require the ability to organize and present, effectively, courses at both the graduate and undergraduate levels. Moreover, potential candidates are expected to have a solid record of accomplishment in research and to show promise of developing vigorous, independent programs of scholarly investigation. To apply, submit a brief biographical sketch, a publication list, names of three references, and a short résumé of ideas for the development of teaching and research programs. Deadline for applications is 1 January 1979. Please apply to:

Dr. Adam Allerhand, Chairperson
Department of Chemistry
Indiana University
Bloomington, Indiana 47401

Indiana University is an Equal Opportunity/Affirmative Action Employer.

SENIOR FACULTY POSITION

The Department of Chemistry anticipates having at least one opening at the senior faculty level for the 1979-1980 academic year. Although we are particularly interested in candidates whose research is in the areas of organic or physical chemistry, we will consider outstanding candidates in any area of chemistry. Candidates must have demonstrated excellence in research and teaching. Please send curriculum vitae and publication list to:

Dr. Adam Allerhand, Chairperson
Department of Chemistry
Indiana University
Bloomington, Indiana 47401

Indiana University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS

The Chemistry Department anticipates several tenure-track openings at the assistant professor level. We are interested in candidates with training in analytical, inorganic, organic, or physical chemistry. These positions will require the ability to organize and present, effectively, courses at both the graduate and undergraduate levels. Moreover, potential candidates are expected to have a solid record of accomplishment in research and to show promise of developing vigorous, independent programs of scholarly investigation. To apply, submit a brief biographical sketch, a publication list, names of three references, and a short résumé of ideas for the development of teaching and research programs. Deadline for applications is 1 January 1979. Please apply to:

Dr. Adam Allerhand, Chairperson
Department of Chemistry
Indiana University
Bloomington, Indiana 47401

Indiana University is an Equal Opportunity/Affirmative Action Employer.

FISHERIES EXTENSION AGENT. The University of Minnesota Sea Grant Extension Program has position for fisheries extension agent to work with recreational and commercial fisheries on Minnesota coastal area of Lake Superior. Preference will be given to individual with work experience in fisheries or extension programs. M.A. in fishery science required. \$15,864; begin 1 February. Send résumé by 15 December to: Dale Baker, 109 Washburn Hall, University of Minnesota, Duluth, Minn. 55812. Equal Opportunity/Affirmative Action Employer.

DEPARTMENT HEAD-LIFE SCIENCES

We seek a department head to succeed Dr. James F. Danielli. A strong interest is required in the emerging field of synthetic biology and involvement in novel methods of cell manipulation which will ultimately lead to modified cells and organisms. In addition to administrative experience, the candidate must have a strong interest in innovative undergraduate teaching and in developing our Ph.D. program. Applications, including a curriculum vitae and the names of three referees, should be sent to:

Dean Ray E. Bolz
Worcester Polytechnic Institute
Worcester, Massachusetts 01609

Worcester Polytechnic Institute is an Equal Opportunity/Affirmative Action Employer.

HEAD, DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS

Texas A & M University is seeking candidates for the position of professor and head, Department of Biochemistry and Biophysics, to provide administrative direction of undergraduate and graduate programs in general biochemistry and basic nutrition, graduate study in biophysics, and research program in general and nutritional biochemistry. Responsibilities include intellectual and philosophical leadership to strengthen academic and research programs, coordination of a university-wide graduate faculty in biochemistry, and service as an adviser to programs in medical biochemistry and human nutrition. The head of department is also an officer in the Texas Agricultural Experiment Station. A doctoral degree in biochemistry, molecular biology, molecular biophysics, or nutritional biochemistry is required. The candidate should have demonstrated ability in research and strong appreciation for broadly based and diversified programs in biochemistry and nutrition. Professional leadership and ability to communicate will be factors in the selection. Nominations and applications with curriculum vitae and names of at least three references should be sent by 31 December 1978, to: Dean H. O. Kunkel, College of Agriculture, Texas A & M University, College Station, Texas 77843.

An Equal Opportunity/Affirmative Action Employer

The Mount Desert Island Biological Laboratory (MDIBL) welcomes applications from established INVESTIGATORS wishing to join its year-round program. Work at MDIBL has centered around problems of comparative physiology. A wide range of relevant research interests will be considered, including cell biology, environmental toxicology, developmental biology, and physiology. Curriculum vitae and correspondence should be addressed to:

Dr. Bodil Schmidt-Nielsen, Chairperson
Search Committee
Mount Desert Island Biological Laboratory
Salisbury Cove, Maine 04672

POSITIONS OPEN

IMMUNOPATHOLOGIST. Full-time position. The Dartmouth-Hitchcock Medical Center invites inquiries from Board-qualified or -certified pathologists who are actively interested in the area of immunopathology and who, preferably, have had both postgraduate training and some experience in this field. Additional postgraduate training in internal medicine desirable. Position involves participation in teaching medical students and residents, clinical service activities, and an active interest in immunopathological research. Direct inquiries (including curriculum vitae) to: George D. Sorenson, M.D., Chairman, Department of Pathology, Dartmouth Medical School, Hanover, N.H. 03755.

Equal Opportunity/Affirmative Action Employer

MEDICINAL-PHARMACEUTICAL CHEMIST to assume responsibility for drug assay development and analysis in Clinical Pharmacology Division active in clinical research. Straight salaried position or preferably available as postdoctoral trainee with potential for evolving to faculty position. Inquiries to: Dr. Craig Brater, M.D., Assistant Professor, Division of Clinical Pharmacology, University of Texas Health Science Center at Dallas, Dallas, Texas 75235. Telephone: 214-688-2287.

MEMBRANE BIOPHYSICIST/BIOCHEMIST

The Department of Radiation Biology and Biophysics, of the University of Rochester, has a regular faculty position, rank open, for an individual having an active research program in mammalian cell membranes. Desired areas of interest: receptors, cell-cell interaction, membrane protein chemistry, and reconstitution. Send curriculum vitae and names of three references to:

Dr. Adil E. Shamoo
Chairman of Search Committee
Department of Radiation Biology and Biophysics
University of Rochester
School of Medicine and Dentistry
Rochester, N.Y. 14642

An Equal Opportunity Employer, M/F

MICROBIOLOGIST (SOIL MICROBIOLOGIST/MICROBIAL ECOLOGIST). Ph.D. required; postdoctoral experience recommended. Teaching consistent with other science faculty and research in soil microbiology/microbial ecology through Agricultural Experiment Station. Start: 1 July 1979.

Assistant professor, 12-month (Departments of Microbiology and Soil Science). Application closing date: 1 February 1979. Send résumé, transcripts, and three letters of recommendation to: J. L. Fryer, Chairman, Department of Microbiology, Oregon State University, Corvallis, Ore. 97331. Oregon State University is an Affirmative Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973.

MICROBIOLOGIST. Assistant professor, tenure-track. Fall 1979 appointment. Ph.D. required. Responsibilities include bacteriology, medical microbiology, and introductory biology. Preference will be given candidates with teaching experience and with competence in immunology and biochemistry. Send résumé and three letters of reference to: Dr. J. C. Streett, Texas Wesleyan College, Fort Worth, Texas 76105. Closing date: 15 January 1979. An Equal Opportunity/Affirmative Action Employer.

The Food Safety and Quality Service (FSQS) of the U.S. Department of Agriculture (USDA) has a MICROBIOLOGIST position, grade GS-11 (promotion potential to GS-12), salary \$18,258 to \$23,739 per annum, on the Microbiology Staff, Beltsville, Md. The incumbent carries out laboratory methods development projects, performs microbiological and biochemical analysis of meat and poultry products.

Qualifications: candidates must have a bachelor's or higher degree with major study in microbiology, biology, or chemistry; or a combination of education and experience that has provided professional and technical knowledge equivalent to that provided by the full 4-year college course; and a minimum of 3 years of professional experience in microbiology, of which 1 year must have been at the GS-9 level or equivalent. Candidates must have current eligibility with the Civil Service Commission, competitive status, or reinstatement eligibility. USDA is an Equal Opportunity Employer. Submit Standard Form 171, Personal Qualifications Statement, by 30 November 1978, to: Christine Robinson, USDA, FSQS, Personnel Division, E2, WSPD, Room 3438-South Building, 14th Street and Independence Avenue, SW, Washington, D.C. 20250; telephone: 202-447-6617.



AMERICAN SOCIETY FOR
PARENTERAL AND ENTERAL
NUTRITION, INC.

3rd Clinical Congress

January 30 – February 3, 1979
Sheraton-Boston Hotel
Boston, Massachusetts

Nutrition — A Medical Specialty

- Plenary Presentations
- Short Papers
- Special Interest Courses
- Post Graduate Courses

1/31 & 2/1, 1:30 p.m. - 5:30 p.m.

No. 1 Obesity-Nutritional Therapy

No. 2 Nutritional Therapy in Internal Medicine

2/2, 1:30 p.m. - 5:30 p.m.; 2/3, 1:30 p.m. - 4:30 p.m.

No. 3 How to Conduct Nutritional Research

No. 4 Nutritional Therapy for Infants and Children

1/31, 8:00 a.m. - 12 noon, 1:00 p.m. - 5:30 p.m.

No. 5 Nutritional Basic Science

No. 6 Assertiveness in Clinical Dietetics

Post graduate courses will provide 6 ½ hours of continuing education credit for physicians.

Registration is limited for each course; advance registration is urged.

Advance registration deadline is Jan. 1. On-site registration begins Jan. 30.

For further information write to:

ASPEN Meeting Office / 9650 Rockville Pike / Bethesda, Md. 20014

UNIVERSITY OF PENNSYLVANIA

The DEAN OF THE FACULTY OF ARTS AND SCIENCES is pleased to announce that the DEPARTMENT OF BIOLOGY is planning an appreciable expansion in faculty size over the next 4 years. Positions will become available at all ranks.

At present, the faculty of this department have research interests in cell cytoskeletal/contractile systems, neurobiology, population genetics, ecology, immunobiology, and developmental biology, as well as other areas. Preference will be given to candidates with productive research backgrounds complementary to those of present staff, as well as to active experimentalists with interests in one of the following: nucleic acid/molecular biology, gametogenesis, chemical mutagenesis, natural and artificial membranes, chromosome structure and function, eukaryotic cell pharmacology and physiology, behavioral physiology, or in cell communication/recognition/adhesion events.

Descriptions of some specific positions, which may be applied for, appear below. Others will appear in the future.

The Department of Biology of the Faculty of Arts and Sciences is pleased to announce the availability of positions at the ASSISTANT OR ASSOCIATE PROFESSOR level in each of the following areas beginning with the 1979 academic year:

- 1) Ecology
- 2) Eukaryotic Genetics
- 3) Plant or Animal Physiology
- 4) Developmental Biology
- 5) Cell Biology (as a co-appointment in Biology and a preclinical department)

The applicant's research program should be identifiable as falling within at least one of the above areas and he or she should be competent and willing to teach generally in that area and at all levels. Preference will be given to active researchers with productive backgrounds; to candidates whose interests and training are in more than one of these areas; and to experimentalists who extend the analysis of their systems to the cellular and molecular level by using the most current and sophisticated of appropriate techniques.

Please send curriculum vitae, brief outline of projected research programs, reprints of your most relevant publications, and names and addresses of three or more referees who would be willing and competent to write letters of recommendation. Further, please arrange to have one letter sent immediately and directly by a recommender of your choice to:

Dr. D. J. O'Kane, Chairman
Department of Biology
University of Pennsylvania
212 Biology Building/G5
Philadelphia, Pennsylvania 19104

An Equal Opportunity/Affirmative Action Employer

NUCLEIC ACID RADIOCHEMIST

P-L Biochemicals has an opening for a Nucleic Acid Radiochemist. The chemist will prepare carbon-14 labeled products related to recombinant DNA technology and nucleic acid enzymology. Labeled gene fragments and other defined deoxyoligonucleotides are specific examples of the desired new products. Experience in chemical or enzymic syntheses using millicurie quantities of carbon-14 is required. Excellent fully equipped modern laboratory ready for the right individual.

P-L Biochemicals offers an excellent salary and fringe benefit program which includes dental.

To arrange for a confidential interview, send a complete resume with a salary history to:

Employment Supervisor
P-L BIOCHEMICALS, INC.
917 W. Juneau Ave.
Milwaukee, WI 53201

An Equal Opportunity Employer M/F

POSITIONS OPEN

LABORATORY TECHNOLOGIST (SENIOR)—Organize, coordinate, and supervise surgical research laboratory. Assist in protocol design for animal experiments, perform animal experiments requiring surgical techniques, operate and maintain monitoring equipment, chemical analysis of physiologic solutions. Assist in preparation of abstracts and papers. Supervise technologists and medical students in laboratory procedures. Prefer B.S. in physiology, biology, or biochemistry, and 2 years of laboratory animal experience. Position available immediately. Send résumé to: **University of Rochester, Personnel Department, 260 Crittenden Boulevard, Rochester, New York 14642. Equal Opportunity Employer, M/F.**

MICROBIOLOGIST AND POPULATION BIOLOGIST

Applications are invited for two tenure-track teaching/research positions at the assistant professor level from individuals with active research programs in the following areas:

- 1) **MICROBIOLOGY:** applied microbiology, microbial ecology, or physiology. Experience with bacteria or viruses desirable.
- 2) **POPULATION BIOLOGY:** quantitative field oriented research preferred. Experience with vertebrates or plant/animal interactions desirable.

Responsibilities for both positions include teaching introductory biology, courses in specialty area, and supervision of master's degree candidates. Send curriculum vitae, representative reprints, statement of research interests, and three letters of recommendation to: **Search Committee, Department of Biology, University of Missouri-St. Louis, 8001 Natural Bridge, St. Louis, Mo. 63121.** Applications close 4 weeks after the date of this advertisement. *An Equal Opportunity/Affirmative Action Employer.*

NEUROBIOLOGY/NEUROENDOCRINOLOGY

The Division of Reproductive Biology at The M.S. Hershey Medical Center invites applications for research positions at the instructor level in the following research areas: (i) enzymological and cell culture approaches to the actions of catechol estrogens on the CNS, (ii) mode of action of androgens on the developing CNS, and (iii) factors affecting responsiveness of anterior pituitary to hypothalamic hormones. Candidates should have a strong background in one of the neurosciences and/or reproductive physiology and should submit curriculum vitae, a brief summary of research interests, and two letters of reference to: **Dr. Judith Weisz, Division of Reproductive Biology, M. S. Hershey Medical Center of The Pennsylvania State University, Hershey, Pa. 17033. An Equal Opportunity Employer.**

PLANT OR FUNGAL PHYSIOLOGIST. Supply assistant professor starting fall 1979. Appointment for 1 year with possible reappointment up to 3 years total. If extended beyond 3 years, position becomes tenure-track. Teaching responsibilities include general biology (team taught) and upper level physiology courses. Persons interested in below-ground and/or hormone physiology are especially invited to apply, but others will be considered. Ph.D. required along with evidence of competence in teaching and research. Closing date: 1 February 1979. Send résumé and names of three referees to:

**Search Committee
Department of Botany
University of Wyoming
Laramie, Wyo. 82071**

For further information, telephone: 307-766-2380. *The University of Wyoming is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL APPOINTMENTS

The Ames Laboratory of the U.S. Department of Energy has a number of vacancies for postdoctoral fellows in the fields of chemistry, physics, metallurgy, and engineering. The appointments would be for 1 year, renewable for a second year if mutually agreeable. In some instances there may be a possibility for continued employment beyond the 2-year postdoctoral appointment if circumstances warrant.

Interested persons should submit a complete résumé, along with the names and addresses of three professional references, to:

**Ames Laboratory
Personnel Office
127 Spedding Hall
Iowa State University
Ames, Iowa 50011**

An Equal Opportunity Employer

POSITIONS OPEN

PLANT PHYSIOLOGISTS

The Department of Botany of the University of Georgia invites applications and nominations for two **tenure-track positions** in the broad area of plant physiology. Applicants should have a demonstrated potential for teaching and research on **organismal, cellular, or molecular aspects** of basic plant physiology. Successful applicants will be expected to establish an independent research program, to teach an undergraduate course in plant physiology and a graduate course in the applicant's special area, and to train M.S. and Ph.D. students. It is anticipated these positions will be filled at the assistant professor level but appointment at a higher level is possible for outstanding senior applicants. Interested persons should send curriculum vitae, including a statement of research interests, and have four letters of recommendation sent to: **Dr. W. B. Cosgrove, Chairman, Plant Physiology Search Committee, Division of Biological Sciences, Room 400, Biological Sciences Building, University of Georgia, Athens, Georgia 30602.** Applications must be postmarked not later than 15 January 1979. *The University of Georgia is an Equal Opportunity/Affirmative Action Employer.*

Tenure-track POSITIONS. Biochemistry, inorganic chemistry, organic chemistry, each contingent on funding. \$14,256 to \$21,624; fall 1979. Ph.D. required. Teaching duties in specialty and general chemistry. Deadline: 2 January 1979. Send résumé and four letters supplied by referees to: **Dr. William Rife, Head, Chemistry Department, California Polytechnic State University, San Luis Obispo, Calif. 93407. Affirmative Action/Equal Opportunity/Title IX Employer.**

The Division of Nuclear Medicine, Department of Internal Medicine, at the University of Michigan, has a **POSTDOCTORAL POSITION** available for an individual with a Ph.D. in biochemistry or pharmacology. Applicants with experience in protein chemistry and enzymology are preferred. The postdoctoral scholarship, sponsored by NIH, is part of an ongoing program in cancer research training in nuclear medicine. The individual will have an opportunity to interact with biochemists, nuclear pharmacists, organic chemists, and physicians. The research involves the development of tissue-specific enzyme inhibitors as potential imaging agents. The position is available immediately and the appointment is up to 3 years. Candidates should send curriculum vitae, a summary of pertinent experience, and names of three individuals who may be contacted for references to: **Dr. Michael C. Tobes, W5614 University of Michigan Hospital, Division of Nuclear Medicine, Ann Arbor, Michigan 48109. A nondiscriminatory, Affirmative Action Employer.**

POSTDOCTORAL POSITION available in laser light scattering laboratory. Background in polymer solution chemistry or physical biochemistry required. Contact: **Professor F. E. Karasz, Department of Polymer Science and Engineering, or Professor N. C. Ford, Department of Physics, University of Massachusetts, Amherst, Mass. 01003. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Opportunities for research training in cardiovascular physiology, covering all aspects of human and animal studies available for Ph.D. or M.D. applicants. Send résumé with references to: **Dr. Alexander R. Lind, Professor and Chairman, Department of Physiology, Saint Louis University School of Medicine, 1402 South Grand Boulevard, Saint Louis, Missouri 63104. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately. Involves study of glucocorticoid action on B-lymphocyte function and leukemia. Prefer individual with experience in molecular endocrinology or experience in B-cell differentiation. Send curriculum vitae and references to: **Dr. Thomas S. Ruh, Department of Physiology, St. Louis University, 1402 South Grand Boulevard, St. Louis, Mo. 63104. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION Microbiology/Molecular Biology

Research in the area of membrane adaptation to alcohol and related drugs; alcohol tolerance and its biochemical basis. Available about January 1979. Send curriculum vitae to: **L. O. Ingram, Department of Microbiology and Cell Science, University of Florida, Gainesville, Fla. 32611. An Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION

Available immediately for research on the structure and function of a membrane bound acetylcholine receptor using x-ray absorption spectroscopy, x-ray diffraction, and electron microscopy. Applicants should have experience in application of physical techniques to biochemical systems. This project will be carried out at University of California, San Francisco, and at Stanford University. Applications, accompanied by curriculum vitae and names of two referees, may be sent to: **Dr. R. M. Stroud, Department of Biochemistry, University of California, School of Medicine, San Francisco, Calif. 94143.**

POSTDOCTORAL/RESEARCH ASSOCIATE position in biochemistry, available immediately for up to 3 years for project on glycosylation of proteins and liposomes. Experience with glycoproteins lipids, membranes, or cell culture helpful. Send curriculum vitae and names of three references to: **Dr. John C. Wriston, Jr., Department of Chemistry, University of Delaware, Newark, Del. 19711. The University of Delaware is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately in group studying DNA repair enzymes. The appointee will be expected to work on immunoassays for several enzymes. Prefer individual with experience in immunochemistry, RIA, and tissue culture. Salary to \$14,000. Send letter of application with curriculum vitae and three references to:

**Dr. David A. Levy
Department of Biochemistry
The Johns Hopkins University
School of Hygiene and Public Health
615 North Wolfe Street
Baltimore, Maryland 21205**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL RESEARCH ASSOCIATE. Available immediately, for studies on the metabolism of vascular tissues related to the development of atherosclerosis. Experience in lipid biochemistry, prostaglandins, and/or platelet chemistry desirable. Send curriculum vitae and list of persons who may be contacted for references to: **Dr. P-O Hagen, Duke University Medical Center, Box 3473, Durham, N.C. 27710. Equal Opportunity/Affirmative Action Employer.**

OHIO STATE UNIVERSITY

Position: **POSTDOCTORAL/RESEARCH ASSOCIATE** available approximately 1 February 1979, for research in the detection of chemical agents which may enhance the effect of x-irradiation on experimental central nervous system tumors without increasing the effect upon normal brain. Interest in oncology and neurobiology and a background in biochemistry, pathology, or pharmacology would be desirable. Studies will involve use of animal models, work with cell lines, prediction of radiation enhancing agents, and applications to survival experiments. General instruction in neurochemistry, neuropathology, and radiation biology is provided. Send curriculum vitae, references, and reprints to:

**Dr. J. Norman Allen or
Dr. Nancy R. Clendenen
Division of Neurology
Ohio State University
463 Means Hall
466 West 10 Avenue
Columbus, Ohio 43201**

RESEARCH ASSOCIATE to study physiologic and genetic variability in inborn errors of metabolism utilizing newly developed analytical biochemical methods for qualified recent Ph.D./M.D. Send curriculum vitae and three letters of reference to: **Dr. George K. Summer, Biochemistry and Nutrition, FLOB 231 H, University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27514. Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE to study the biochemical and physiological events following stimulation of blood platelets. Background in membrane lipids, calcium fluxes, and/or membrane receptors preferred. Start January to July 1979. Send résumé and names, addresses, and telephone numbers of three references to: **Dr. Howard B. Bensusan, Department of Biochemistry, Case Western Reserve University Medical School, Cleveland, Ohio 44106.**

RESEARCH SCIENTIST

Physiologist/Endocrinologist

We have a singular opportunity for a PhD in physiology, pharmacology or endocrinology, preferably with some post-doctoral experience. You will be joining a team of researchers involved in the discovery of new therapeutic agents for the treatment of diabetes mellitus and associated metabolic disorders.

The successful candidate should have the capabilities to generate new research projects and the interest to delve into the mechanism of action of existing drugs. Preference will be given to the individual experienced in animal surgery, arteriovenous difference tracer infusion techniques *in vivo* and the regulation of carbohydrate metabolism.

We're a leading pharmaceutical manufacturer, a Johnson & Johnson Company, with corporate headquarters in a beautiful rural setting in Fort Washington, Pa., a suburb of Philadelphia. We provide an excellent starting salary, a very comprehensive package of company benefits, and the opportunity to move forward in a totally professional environment. For immediate consideration forward your resume, including salary requirements to S. Hackman.

McNeil Laboratories, Inc.
Fort Washington, Pa. 19034.

McNEIL

An Equal Opportunity Employer, M/F/H

NUCLEIC ACID MOLECULAR BIOLOGIST

P-L Biochemicals has an immediate opening for a Nucleic Acid Molecular Biologist. Ph.D. plus post-doctoral experience is required for this position. Successful applicant must be able to apply knowledge of nucleic acid enzymology to develop products related to the molecular biology of gene cloning. An excellent opportunity for a self-starting, bench-oriented Nucleic Acid Biochemist to apply (frontiers of science) technology to the biochemical industry.

P-L Biochemicals offers an excellent salary and fringe benefit program which includes dental. To arrange for a confidential interview, send a complete resume with a salary history to:

Employment Supervisor
P-L BIOCHEMICALS, INC.
917 W. Juneau Ave.
Milwaukee, WI 53201

An Equal Opportunity Employer M/F

ENERGY

HOW ACCURATE IS THE INFORMATION AND WHAT DOES IT ACTUALLY MEAN?

We need people in our newly formed Energy Information Systems Validation Group to analyze the processes of information specification, measurement reporting and processing in order to determine the utility and accuracy of energy information.

MANAGERS

Three key positions requiring demonstrated scientific and managerial ability in interdisciplinary research programs. Typical disciplines represented include information systems, statistical analysis, sociology, operations research, energy systems studies, economics and policy analysis. Require Ph.D. and outstanding scientific contributions in a relevant field, strong interpersonal skills, and ability to effectively plan, organize, staff and direct research operations.

■ ■ ■ Manager, Systems Validation

responsible for validation studies of information systems addressing fundamental problems in measurement estimation and interpretation.

■ ■ ■ Manager, Methodology Development

responsible for design and development of scientifically sound methods for validating information systems.

■ ■ ■ Manager, Field Operations

responsible for direction of field research efforts including interviewing firms and agencies associated with systems under study. Develop information gathering methods which emphasize both exploratory and structured solicitation techniques.

PROJECT ANALYSTS

Positions involve responsibility for design and execution of validation studies and preparation of reports on information systems. Require advanced degree with relevant experience in systems validation.

Send 2 copies of resume and salary history to:

LAWRENCE BERKELEY LABORATORY



Personnel Department/EISV Project
One Cyclotron Road
Berkeley, CA 94720

An Equal Opportunity Employer M/F/H

POSITIONS OPEN

POSTDOCTORAL RESEARCH OPPORTUNITY in basic and/or applied studies of ultrasound imaging of tissues. Selected candidate will conduct investigations involving basic mathematical studies of wave equation, or computerized ultrasonic signal analysis, or clinical applications of new advanced ultrasound imaging instruments. Background in electronics and physics is preferred and computer programming experience is desired. M.D.'s or Ph.D.'s should send curriculum vitae, bibliography, and names of three references to: **Dr. J. F. Greenleaf, Biodynamics Research Unit, Mayo Clinic, Rochester, Minnesota 55901.** *An Equal Opportunity/Affirmative Action Institution.*

ALEXANDER DUESSEN PROFESSORSHIP IN ENERGY RESOURCES DEPARTMENT OF GEOLOGICAL SCIENCES THE UNIVERSITY OF TEXAS AT AUSTIN

Applications are invited for an endowed position as the Alexander Duessen Professor with tenure to participate in the undergraduate and graduate teaching programs in our department. This person would also be expected to develop a program of research involving graduate students. We especially seek someone with expertise in petroleum geology and with close contact with the energy industries. Applicants should be actively involved in the application of their special research to the finding or developing of energy resources. Applications should be received by 1 January 1979.

The position is available 1 September 1979. Interested applicants should send a complete résumé, including names of references, to:

**Robert E. Boyer, Chairman
Department of Geological Sciences
The University of Texas
Austin, Texas 78712**

*An Affirmative Action/Equal Opportunity
Employer, M/F*

TRAVELING LECTURERS

University of Maryland University College seeks excellent classroom teachers for nonlaboratory science courses offered to students on U.S. bases overseas. Geologists, zoologists, and botanists with clear competence to teach two of these areas sought. (i) Ph.D. or two M.A.'s, (ii) recent undergraduate teaching experience, and (iii) U.S. citizenship all essential. Families: positions require frequent travel; family housing and schools not provided. Apply (send résumé) to: **Assistant Dean/Overseas Programs, University of Maryland University College, College Park, Maryland 20742.** *Equal Opportunity/Affirmative Action Employer.*

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL VICE CHANCELLOR AND DEAN OF THE GRADUATE SCHOOL

The University of North Carolina (UNC) at Chapel Hill seeks applications for the position of vice chancellor and dean of the Graduate School, beginning 1 September 1979. Duties include: advising the chancellor on matters concerning graduate studies; participating in decisions on appointment and promotion of graduate faculty; overseeing postbaccalaureate degree programs in the university except J.D., D.D.S., and M.D.; and serving as chief administrative officer for research and training grants and contracts in the university. A suitable candidate for the deanship of the Graduate School at the University of North Carolina at Chapel Hill should be a nationally respected publishing scholar who has attained the highest degree in his or her field, normally the Ph.D.; a person who has the ability to provide leadership for a quality graduate faculty and program; a person who will strongly foster and support the research activities of the university; a person who is committed to the goals and philosophies of higher education and research held here in the university and nationally; a person who will vigorously pursue the university's Affirmative Action goals; a person who has shown the capacity to become an objective and diplomatic administrator; a person who demonstrates his or her understanding of the diversity and the scope represented in our graduate and professional schools and programs; a person who can and will speak for the university effectively in national educational circles. Applicants should provide curriculum vitae with the names of three references, before 15 December 1978, to: **Professor R. W. Pfouts, Chairman of Search Committee, University of North Carolina, 300G Gardner Hall 017A, Chapel Hill, N.C. 27514.**

UNC is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

RESEARCH ASSOCIATE POSITION

Position available 1 January 1979, for a Ph.D. in biochemistry of myocardial and lung proteins. Preference will be given to candidates with prior experience in isolation and purification of muscle proteins. Salary range: \$11,000 to \$13,000. Appointment is for 1 year, renewable up to 3 years. Send curriculum vitae to: **Dr. Y. S. Reddy, Department of Surgery, University of Texas Medical School at Houston, Suite 1222, 6424 Fannin, Main Building, Houston, Texas 77030.**

SENIOR RESEARCH ASSISTANT IN NEUROENDOCRINOLOGY

For qualified individual interested in studying CNS mechanisms regulating reproductive function. Experience in radioimmunoassay, small-animal stereotaxic surgery, cryostat sectioning, or autoradiography desired. Salary: \$10,500 to \$13,500; 3-year grant-supported position. Send résumé describing experience and skills and two references by 1 December to: **Dr. Anna-Lisa Barofsky, Department of Physiology and Biophysics, Howard University, College of Medicine, 520 W Street NW, Washington, D.C. 20059.**

SENIOR RESEARCH ASSOCIATE

An individual with experience in all aspects of scanning electron microscopy and with an interest in energy-dispersive analysis is invited to apply for this career position. Responsibilities will include operation and maintenance of a new Philips 500 SEM, specimen preparation, teaching, and general support in the electron microscopy area. Must have master's degree with 4 years of experience. Doctorate level applicants may be considered. Contact:

**Personnel Office
The University of Texas Health Science Center
at San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78284**

An Equal Opportunity/Affirmative Action Employer

SENIOR RESEARCH POSITIONS

Aggressive, quantitative molecular biologists needed to study fundamental aspects of regulation of gene expression, especially gene splicing. Methods include restriction analysis, nucleic acid sequencing, cloning and protein-nucleic acid interactions. Study systems: murine retrovirus genome, retrovirus genome-related cellular sequences and the attenuator region of the arginine regulon in *Escherichia coli*. Reply with curriculum vitae and three references to:

**Dr. Eric James
Department of Biochemistry
University of Kentucky Medical Center
Lexington, Kentucky 40506**
The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

TOXICOLOGIST

We are currently seeking a senior scientist in the Division of Drug Safety Evaluation. This individual will assume the responsibilities of study director for subacute and chronic toxicologic studies on drug candidates. These responsibilities will include: participation in the design of experiments; preparation of protocols; scheduling and overall supervision of studies; interpretation and evaluation of results of clinical-laboratory tests; and preparation of written summaries and reports. In addition, it will be the responsibility of this individual to ensure that study protocols and standard operating procedures are followed precisely, and that good laboratory practices are employed.

Candidates for this position must have a Ph.D. in toxicology or in a related field; no experience is required for those with an appropriate educational background. Qualified individuals are invited to submit a brief résumé to:

**J. David Fursman
E. R. Squibb and Sons, Inc.
Department PS
P.O. Box 4000
Princeton, New Jersey 08540**
An Equal Opportunity Employer, M/F

POSITIONS OPEN

POSTDOCTORAL POSITION: available immediately. Research associate with Ph.D. is being sought to participate in a study of the regulation of hepatic glucose production. Background in the biochemistry of carbohydrates and lipids is desirable. Send curriculum vitae and names of references to:

**Dr. Stanley Blumenthal
VA Medical Center
Irving Avenue and University Place
Syracuse, New York 13210**

RESEARCH ASSOCIATE POSITIONS IN NMR SPECTROSCOPY

The NSF Center in NMR Spectroscopy at the University of South Carolina is seeking highly qualified applicants for three positions within the facility. The salaries for these positions range from \$16,000 to \$17,500. The applicants should have extensive experience in the applications of NMR spectroscopy. It is anticipated that one of the positions will be filled by a hardware specialist. The duties of the personnel at the center will be divided approximately equally between service and a variety of research programs. The principal instrument of the center will be a Bruker WH-400 NMR spectrometer. This instrument is completely multinuclear, with large tube capability for biological samples. A companion instrument, to which the center has access, is a Bruker WH-200. This instrument, in addition to being multinuclear, is capable of performing high-resolution NMR experiments on solids. The starting date for these positions is 1 January 1979. Applicants should send résumés, reprints of published papers, and three letters of reference to: **Dr. Paul-D. Ellis, Chemistry Department, University of South Carolina, Columbia, South Carolina 29208.** *The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE IN IMMUNOLOGY

A postdoctoral position is available for studies on the mechanisms of lymphocyte-lymph node homing. An in vitro system is used which permits investigation of this phenomenon in both animals and humans. Starting salary is \$13,000. Send curriculum vitae to: **Dr. Judith J. Woodruff, Department of Microbiology and Immunology, State University of New York, Downstate Medical Center, Brooklyn, New York 11203.**

An Equal Opportunity/Affirmative Action Employer

Applications are invited for two permanent positions in the laboratories of the **Swiss Serum and Vaccine Institute, Berne, Switzerland:**

VIROLOGIST. Candidates should have strong background in tissue culture and virology. Areas of competence should include human diploid cell culture methodology and virus vaccine production and development.

BACTERIOLOGIST. To join a team engaged in the development and production of bacterial vaccines. Applicants should have university degree. Previous experience in immunology and preparation of vaccines would be essential.

We offer excellent benefits. Salary commensurate with experience. Send curriculum vitae, bibliography, and references to:

**Personnel Manager
SWISS SERUM AND VACCINE INSTITUTE
BERNE
P.O. Box 2707
CH-3001 Berne, Switzerland**

COURSES

MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR HORMONE ACTION 25 February to 2 March 1979

**Codirectors: Bert W. O'Malley
and William T. Schrader**

The course will cover receptors for protein and steroid hormones, gene transcription, RNA polymerase, mRNA synthesis and protein synthesis, membranes, cyclic nucleotides, protein kinase, phosphodiesterase, and tissue culture. The course will consist of lectures in methodology, with a comprehensive syllabus. Fee: \$195 (\$145 for fellows). Contact: **Barbara Gordin, Department of Cell Biology, Baylor College of Medicine, Houston, Texas 77030.** Telephone: 713-521-4701.

**FACULTY POSITIONS
1979-1980
KING FAISAL UNIVERSITY
COLLEGE OF MEDICINE
DAMMAM, SAUDI ARABIA**

The expanding College of Medicine, now in its fourth year, is accepting applications from qualified men and women for the 1979-1980 academic year in:

CHEMISTRY	PATHOLOGY
BIOLOGY	COMMUNITY
PHYSICS	MEDICINE
BIOCHEMISTRY	EPIDEMIOLOGY
ANATOMY	MICROBIOLOGY
PHYSIOLOGY	PARASITOLOGY
PHARMACOLOGY	

Doctorate or equivalent degree required. Language of instruction is English. Interviews to be held in London and Houston in late February 1979.

SALARY RANGES (annual, paid monthly in Saudi Riyals):

Professor: \$26,118 to \$33,378
Associate Professor: \$23,359 to \$29,712
Assistant Professor: \$19,039 to \$24,757
Lecturer: \$11,906 to \$16,444

(30 percent allowance for M.D. degree)

BENEFITS:

Free furnished housing, educational allowances, airfare to and from Saudi Arabia for family of four, 60-day paid vacation, liberal overweight allowance. No Saudi income tax.

Send two copies of résumé and three references to:

Dr. Tawfik Tamimi
Dean, Faculty of Medicine
King Faisal University
c/o Saudi Arabian Educational Mission
2221 West Loop, South
Houston, Texas 77027

OR

c/o P.O. Box 2
Sunbury on Thames
Middlesex TW16 6EH England

TECHNICAL SPECIALIST

Neurobiology Laboratory Manager. A continuing position is available for an individual with neurophysiological and neuroanatomical experience to assist in supervising a neurobiological laboratory. Employment would start at the University of Virginia beginning January 1979. The laboratory would then move to the State University of New York at Stony Brook during the summer of 1979.

Responsibilities would include the supervision of technical staff, maintenance of facilities, interaction with predoctoral and postdoctoral trainees, and direct involvement in research. Some opportunity would be available for collaborative and independent research within the context of the research program of the laboratory. An advanced degree related to neuroscience is desirable but not essential, given appropriate laboratory experience. Salary is contingent upon qualifications and experience.

Applicants should send curriculum vitae and the names of three references to: Dr. David H. Cohen, Department of Physiology, UNIVERSITY OF VIRGINIA SCHOOL OF MEDICINE, CHARLOTTESVILLE, VIRGINIA 22901. *Equal Opportunity/Affirmative Action Employer.*

PATHOLOGIST

Board-certified or -eligible in anatomic and clinical pathology with experience and/or training in immunopathology to direct a regional Veteran's Administration Rheumatology-Immunology Center laboratory. Must work in association with clinicians as well as participate in research programs. This position is affiliated with the Medical College of Pennsylvania and carries an academic appointment. Apply to:

Chief Laboratory Service

**Veteran's
Administration
Medical Center**

University and
Woodland Avenues,
Philadelphia, Pa. 19104



An Equal Opportunity
Employer, M/F

—J. ROBERT OPPENHEIMER RESEARCH FELLOWSHIP—

In addition to our Laboratory's regular postdoctoral program, a special postdoctoral research fellowship will become available beginning about June, 1979. Named in honor of the first Director of the Los Alamos Scientific Laboratory, the program is intended to foster continuing interactions between the Laboratory and recent recipients of doctoral degrees who show clear and definite promise of becoming outstanding leaders in scientific research.

Appointments are considered in the physical sciences, the natural sciences, mathematics, and engineering.

The one to three year appointments carry an annual salary of \$25,000.00.

Closing date for the competition is December 31, 1978.

Inquiries should be directed to:

R. B. Brown, Employment
Representative
Division—79-H
Los Alamos Scientific
Laboratory
P. O. Box 1663
Los Alamos, New Mexico
87545



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Iodohydroxybenzylpindolol, [¹²⁵I]-

Carrier-free, ~2200Ci/mmol
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Dry ice.
NEX-125 100 μ Ci 500 μ Ci 1mCi

ACETYLCHOLINE RECEPTOR BINDING

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10-20 μ Ci/ μ g
0.05M Sodium phosphate buffer (pH7.5) containing
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CONFERENCE

CIIT CONFERENCE ON SCIENTIFIC CONSIDERATIONS IN MONITORING AND EVALUATING TOXICOLOGICAL RESEARCH

The Chemical Industry Institute of Toxicology (CIIT) announces the second CIIT Toxicology Conference, 28 February to 2 March 1979, at Research Triangle Park, N.C. The monitoring of research in toxicology will be discussed by experts in selected areas of chemical safety evaluation where vagueness and discord are likely to occur. Among the areas to be considered are protocol preparation; contract writing; quality insurance in pathology, clinical pathology, and animal husbandry; statistics; data collection and reporting; and monitoring ongoing studies in mutagenesis, teratology, and wildlife toxicology. For further information and registration forms, write to: Dr. Edward J. Gralla, Conference Chairman, Chief of Toxicology, CIIT, P.O. Box 12137, Research Triangle Park, N.C. 27709; telephone: 919-876-8100.

PROGRAMS

DOCTORAL PROGRAM—PHARMACOLOGY

Medical University of South Carolina, Department of Pharmacology, seeks qualified candidates for Ph.D. program. Interdisciplinary environment with research capabilities ranging from gas chromatography-mass spectrometry through cell cultures and animal studies to clinical studies of patients with disease. Research training is available in biochemical pharmacology, cardiovascular pharmacology, drug metabolism, molecular toxicology, analytical chemistry, and clinical pharmacology. Stipends available. Contact: Graduate Training Director, Department of Pharmacology, Medical University of South Carolina, Charleston, S.C. 29401.

The Mount Desert Island Biological Laboratory Salsbury Cove, Maine

Announces 15 February 1979 as the deadline for applications for research space for the summer season of 1979. Facilities for 30 research groups during the summer and additional groups in fall and spring are available. Research is limited to flora and fauna of the region. For further information about facilities and fees, write:

Dr. Richard M. Hays
Albert Einstein College of Medicine
1300 Morris Park Avenue
Bronx, N.Y. 10461

or telephone: 212-430-3158.

GRADUATE STUDY

NEUROSCIENCES AT BAYLOR COLLEGE OF MEDICINE

An interdepartmental Program in the Neurosciences is offered at Baylor College of Medicine for students interested in advanced study leading to the Ph.D. in neuroscience. The program consists of faculty with common interests in neurobiology who strive to promote collaborative research efforts to maximize the interdisciplinary nature of the student's education. Applications must be completed by 1 February. Applicants are notified regarding admission and financial support by 15 April. Information regarding the graduate curriculum, research activities in the program, and application procedures may be obtained from:

Ernest J. Peck, Jr., Ph.D.
Director, Neuroscience Graduate Studies
Baylor College of Medicine
Texas Medical Center
Houston, Texas 77030

GRADUATE STUDIES. Medical University of South Carolina. Predoctoral traineeships available for study leading to the Ph.D. degree in the Department of Anatomy, Basic and Clinical Immunology and Microbiology, Biochemistry, Biometry, Pathology, Pharmacology, Physiology, or the interdisciplinary program in Molecular and Cellular Biology and Pathobiology. Stipends are \$3900 per year and are awarded on a competitive basis. For application and catalog, write to: Dean, College of Graduate Studies, Medical University of South Carolina, 171 Ashley Avenue, Charleston, South Carolina 29403. *The Medical University is an Equal Opportunity/Affirmative Action Employer.*

GRADUATE STUDY

GRADUATE STUDY IN ENVIRONMENTAL HEALTH SCIENCES AND ENGINEERING

School of Public Health
Harvard University

Traineeships and fellowships available for graduate studies in industrial hygiene and occupational health environmental health management, radiation protection, medical radiological physics, and air pollution control. Deadline for completed applications: 1 February 1979. For details contact: Dr. Dade W. Moeller, Harvard School of Public Health, 665 Huntington Avenue, Boston, Massachusetts 02115. *Applications from women and members of minority groups are encouraged.*

NEW Ph.D. PROGRAM IN VISION SCIENCE

The graduate faculty of the State College of Optometry, State University of New York, offers graduate education leading to the Ph.D. in vision science. The purpose of the program is to prepare students for scientific and scholarly research and teaching in almost every area of vision science; an interdisciplinary approach is emphasized. Application deadline is 1 February for entry the following September.

For further information, entry requirements, and application forms, write to: Dr. Alan L. Lewis, Graduate Program in Vision Science, State College of Optometry, State University of New York, 100 East 24 Street, New York, N.Y. 10010. Telephone: 212-477-7994.

ASSISTANTSHIPS

Graduate training in biochemistry and biophysics at the University of Hawaii. Join our active medical school department engaged in numerous research projects of interest and importance. Unique geographical and cultural setting. **PREDOCTORAL TEACHING AND RESEARCH ASSISTANTSHIPS** available September 1979 to qualified applicants. Write to: Chairman, Department of Biochemistry and Biophysics, University of Hawaii, Honolulu, Hawaii 96822. *An Equal Opportunity Employer.*

ASSOCIATESHIPS

POSTDOCTORAL RESEARCH ASSOCIATESHIPS

AT THE NAVAL MEDICAL RESEARCH INSTITUTE
BETHESDA, MARYLAND

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The Naval Medical Research and Development Command
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The National Research Council

Competitive applications are now being accepted for postdoctoral research associateships, starting 1 October 1979, in the areas of behavioral sciences, environmental stress, immunology, microbiology, parasitology, pathology, toxicology, and underwater biomedical research. Candidates must have received their doctoral degree (M.D., Ph.D., D.V.M., or Sc.D.) within the last 5 years. Salary will be \$19,263 per annum. Completed application forms are due not later than 15 January 1979. Information and application forms may be obtained by writing to: The National Research Council Associateship Office (JH608-N2), 2102 Constitution Avenue, NW, Washington, D.C. 20418. *An Equal Opportunity Employer.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS. The Department of Dermatology, Johns Hopkins School of Medicine, has available research training positions for individuals with M.D. or Ph.D. degrees. The preceptors include Doctors Bhatnagar, Farmer, Freedberg, Lamberg, Provost, and Sun and the areas of research include epidermal metabolism, contractile proteins, experimental immunodermatology, dermatopathology, and tissue and cell culture of normal and pathologic epidermis. Send inquiry, curriculum vitae, and three references, to: Dr. I. M. Freedberg, Department of Dermatology, The Johns Hopkins Medical Institutions, 600 North Wolfe Street, Baltimore, Maryland 21205.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP. Hemostasis research. Applications are being considered for a 2-year postdoctoral (M.D. or Ph.D.) trainee starting July or September 1979. This NHLBI-supported multidisciplinary program provides an opportunity for research in the biochemistry and immunology of blood coagulation, platelets, hemostasis, and thrombosis. Send curriculum vitae and letter stating career goals to: Leon W. Hoyer, M.D., Department of Medicine, University of Connecticut Health Center, Farmington, Conn. 06032. *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIP (3 years) available to recent Ph.D. interested in developing RAPID-RESPONSE CARCINOGENESIS ASSAYS. Needs good degree in biology or biochemistry, ability to work independently. Send application with brief research proposal, curriculum vitae, and three references to: Dr. Murray Goodall, Cancer Research Unit, University of Otago, Box 913, Dunedin, New Zealand.

POSTDOCTORAL FELLOWSHIPS are available in the Department of Molecular Biology and Biochemistry at the University of California, Irvine. These fellowships are available for 1 or 2 years studying under the sponsorship of the following faculty members:

R. Davis: metabolic compartmentation in *Neurospora*; G. A. Granger: cell and molecular mechanisms operative in cellular immunity; B. A. Hamkalo: eukaryotic chromosome structure and function; S. Hayes: gene regulation and replication; J. E. Manning: gene sequence organization in eukaryote DNA, electron microscopy; W. D. Nunn: regulation of membrane lipid metabolism, genetic approaches; W. M. Stanley, Jr.: protein biosynthesis in eukaryotic cells; K. K. Tewari: nucleic acids of chloroplasts and other organelles; E. K. Wagner: nucleic acids and molecular biology of herpesvirus replication; R. C. Warner: mechanism of genetic recombination; C. A. Woolfolk: general microbiology, enzymology; and D. L. Wulff: genetic regulatory mechanisms.

For further information contact the individual faculty member or write to: Yvonne Gilbert, The Department of Molecular Biology and Biochemistry, University of California, Irvine, California 92717. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

TRAINEESHIPS

POSTDOCTORAL TRAINING in RNA tumor virology. Stipend from NIH training grant in tumor virology available immediately. Interests include the genetics of avian RNA tumor viruses and the biochemistry of viral gene products in infection and transformation. Applicants should have training in cell or molecular biology. Send curriculum vitae, including names of three references, to: Dr. Robert Nowinski, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, Wash. 98104.

The deadline for applications will be 1 December 1978.

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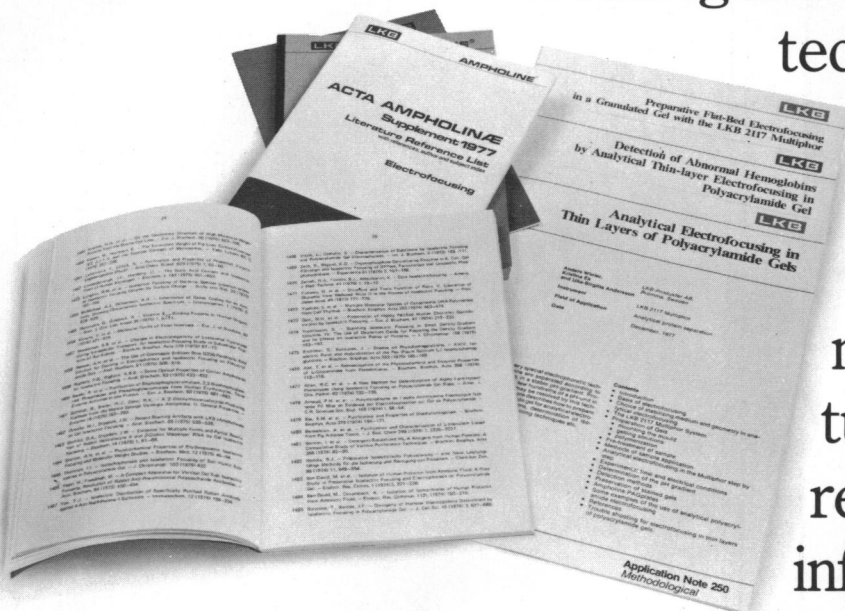
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Photomicrograph by John Delly, McCrone Research Institute

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